ABSTRACT

The present invention provides for a method and apparatus for an infrared transmission system utilizing a circuit board equipped with LEDs having bendable lead wires to transmit an infrared carrier signal. An infrared emitter converts an input signal into a modulated wave for optical transmission via the LEDs. The LEDs are connected to the circuit board with the lead wires bent to aim the LEDs as desired. The bendable LEDs provide near half sperical range of adjustment and the aiming of the LEDs on a board may be adjusted on site for a specific coverage configuration. With respect to the mounting platform, each LED is adjustably pointed or directed to a principal angular direction. This principal angular direction can be shared with other LEDs or unique to that specific LED. By changing the principal angular direction of the LEDs, the shape and size of the infrared transmission coverage area can be selectively adjusted. This provides for flexibility and maximization of the coverage area. At least one infrared receiving unit is within the transmission coverage area for receiving the infrared signal and converting the signal for audio media output.